CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No: CTCE/BBMP/W.No.12/IC/CSR-05/029/CEMENT/2016-17 Date: 05.05.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Shettyhalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**M/s. Inchara Constructions,** #60, 4th Cross, Nandi Nagara, Hesaraghatta Main Road, Chikkabanavara, Bangalore – 90.
*NAME OF THE WORK	:	Construction of Culverts at AYR layout in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
*REFERENCE	:	AEE/SSD/PR/ /2015-16 Dated: 03.05.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	03.05.2016
PERIOD OF TESTING	:	03.05.2016 to 05.05.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No : CTCE/BBMP/W.No.12/IC/CSR-05/029I/SAND-Gradation/2016-17 : 05.05.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: M/s. Inchara Constructions, #60, 4th Cross, Nandi Nagara, Hesaraghatta Main Road, Chikkabanavara, Bangalore – 90.
* Name of Work	: Construction of Culverts at AYR layout in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: AEE/SSD/PR/ /2015-16 Dated: 03.05.2016
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 03.05.2016
Date of Testing	: 05.05.2016

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.20	90-100	90-100	90-100	95-100
2.36	76.20	60-95	75-100	85-100	95-100
1.18	54.20	30-70	55-90	75-100	90-100
600 Micron	24.70	15-34	35-59	60-79	80-100
300 Micron	11.20	5-20	8-30	12-40	15-50
150 Micron	5.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Lab No: CTCE/BBMP/W.No.12/IC/CSR-05/0291/AGG/GR/2016-17

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

: 05.05.2016

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **M/s. Inchara Constructions,** #60, 4th Cross, Nandi Nagara, Hesaraghatta Main Road, Chikkabanavara, Bangalore – 90.
* Name of Work	: Construction of Culverts at AYR layout in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: AEE/SSD/PR/ /2015-16 Dated: 03.05.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 03.05.2016
Date of Testing	: 05.05.2016

Total Wt. of Aggregates in grms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.14	95-100	85-100
20	43.07	30-70	0-20
10	20.36	10-35	0-5
4.75	2.50	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No : CTCE/BBMP/W No.12/IC /STEEL/2016-17 13.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**M/s. Inchara Constructions,** #60, 4th Cross, Nandi Nagara, Hesaraghatta Main Road, Chikkabanavara, Bangalore – 90.
Name of the Work	:	Construction of Culverts at AYR layout in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/SSD/PR/ /2015-16 Dated: 03.05.2016
Date of Test	:	13.05.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	515	558	13.50	O.K	O.K

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Job No.: CTCE/BBMP/W No.12/IC/CSR-05/029I/CUBE/2016-17

15.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **M/s. Inchara Constructions,** #60, 4th Cross, Nandi Nagara, Hesaraghatta Main Road, Chikkabanavara, Bangalore – 90.
* Name of the work	: Construction of Culverts at AYR layout in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: AEE/SSD/PR/ /2015-16 Dated: 03.05.2016
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day
Sample Received on	: 15.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.05.2016	15.06.2016	8.112	362.8	16.12
2	18.05.2016	15.06.2016	8.259	375.4	16.68
3	18.05.2016	15.06.2016	8.326	388.7	17.28

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Job No:- CTCE/BBMP/W.No.12/IC/CSR-05/029I/CUBE/2016-17 15.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **M/s. Inchara Constructions,** #60, 4th Cross, Nandi Nagara, Hesaraghatta Main Road, Chikkabanavara, Bangalore – 90.
* Name of the work	: Construction of Culverts at AYR layout in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: AEE/SSD/PR/ /2015-16 Dated: 03.05.2016
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}

Compressive Strength as on : 28th day

Sample Received on : 15.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.05.2016	15.06.2016	8.182	356.6	15.85
2	18.05.2016	15.06.2016	8.290	368.5	16.38
3	18.05.2016	15.06.2016	8.310	375.5	16.69

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15.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	: **M/s. Inchara Constructions,** #60, 4th Cross, Nandi Nagara, Hesaraghatta Main Road, Chikkabanavara, Bangalore – 90
* Name of the work	: Construction of Culverts at AYR layout in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore
* Reference	: AEE/SSD/PR/ /2015-16 Dated: 03.05.2016
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 15.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.05.2016	15.06.2016	8.115	485.5	21.58
2	18.05.2016	15.06.2016	8.250	516.3	22.95
3	18.05.2016	15.06.2016	8.380	528.6	23.49

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